



APIP

Content & User Profile Tagging Map

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APIP assumes that a test delivery system will combine two different profiles (Item XML and the User Profile) to tailor the test delivery to a specific user's needs. The Item XML has two main parts: the Item Information (meta information about the item) and the content XML (the actual content to be presented to the user) which is based on QTI 2.0. The User Profile contains information about what the user would need to access the information (and may contain specific preferences about that need).

The test delivery system would use the User Profile to know how the user wants the content presented to them, then use the appropriate content information from the Item XML to present the specific content to the user.

If the user profile does not list a specific tag related to an access need, it is assumed that the access need does not need to be provided to the user. So both null and false would mean they wouldn't receive that capability, and true would mean they should receive it.

Content does not necessarily need to have tags related to the access need in order for the user to be supplied with the access need. For example, if a user needed magnification, the test delivery system would provide the tools to change the magnification of the test and/or content based on the User Profile request, but no information need be supplied in the content, since it is assumed that the user interface will provide magnification.

Accessing Information Visually

Access Need	Notes	Content Tags [apip:accessibility]	AfA PNP Mapping [accessForAllUser]
Magnification All content is magnified by the amount specified by the user. Optional magnification amount can be sent in the user profile.			display screenEnhancement magnification optional – magnificationAmount activateByDefault (true/false) def=true
Reverse Contrast All colours are reversed in the user interface.			display screenEnhancement invertColourChoice activateByDefault (true/false) def=true
Alternate Foreground and Background Colors User has the ability to choose a text and background color combination other than the default presentation. Optional color settings could be sent in the user profile.	Need to be bundled for activateByDefault to work		display screenEnhancement. foregroundColour + Vocab optional – colour (hex value) display screenEnhancement backgroundColour + Vocab optional – colour(hex value)
Color Tinting the content A color tint is layed over the content (directions and questions) to aid in reading of text.			display screenEnhancement ext (colourOverlay) activateBy Default (true/false) def=true optional – colourTint (hex value)
Increased White Space Flexibility in layout to allow more space between lines of text, between words of text, and between characters within words. Would affect the layout of items.	Not included in APIP at this time.		display screenEnhancement ext (increasedWhiteSpacing) line =true/false word =true/false character =true/false

Rows with blue highlighting are not intended for APIP 1.0, but the names are reserved for future use.

Assistance Maintaining Focus

Access Need	Notes	Content Tags [apip:accessibility]	AfA PNP Mapping [accessForAllUser]
Auditory Calming Users can listen to music or sounds in the background as they take the test.			display ext (auditoryBackground) activateByDefault (true/false) def = false
Masking User is able to create their own masks to cover portions of the question until needed.			display ext (masking) vocab entry(customMask) activateByDefault (true/false) def= false
Answer Masking By default, answer choices for multiple choice item are covered when the item is first presented. User has the ability to remove the masks at any time.			display ext (masking) vocab entry(answerMask) activateByDefault (true/false) def=false
Structured Masking Certain portions of the item, presented by the item writer, are masked when the item is first viewed.	Affects the item-writing process. Not included in APIP at this time.	structuredMask revealOrder answerOption	display ext (masking) vocab entry(structuredMask)
Encouraging Prompts User is given encouraging prompts as they take the test	Not included in APIP at this time.		display encouragementMode=true/false soundFileHref [0..*] textMessageString [0..*]
Breaks User is allowed to take breaks, at their request, during the testing session, and return to their testing session when ready.			control ext(breaks=true/false)
Additional Testing Time If a test has a time limit, the user will be allowed additional time to complete the test.			control ext(additionalTestingTime=true/false) (def=true/unlimited) multiplier/unlimited
Line Reader User has a tool available that assists them in moving a reading tool (line highlighter or underscore) down line by line, to assist in reading the content			control ext(lineReader=true/false) optional –colour[0..1] hexvalue activateByDefault (true/false) def=false

Assistance Processing Information

Access Need	Notes	Content Tags [apip:accessibility]	AfA PNP Mapping [accessForAllUser]
Flagging Additional information could be supplied for specified parts of the question.	Affects the item-writing process.	flag flagOrder, noteString	content ext(flagging=true/false) def=true autoDisplay/toggleDisplay (either/or)
Keyword Highlighting Certain words are designated in the content as key words. Programs would designate how they are to be highlighted.	Affects the item-writing process.	highlighting	content ext(keywordHighlight=true/false) def=true activateByDefault (true/false) def=true
Scaffolding Additional information provided to the user to assist them in answering the question.	Affects the item-writing process. Not included in APIP at this time	scaffold revealOrder scaffoldBehavior audioFileInfo noteText audioText	content. ext(scaffolding=true/false) def=true
Chunking content is broken into smaller chunks and presented to the user in the smaller chunks.	Affects the item-writing process. Not included in APIP at this time.	chunk	content ext(chunking=true/false) def=true
Reduced answer choices User could ask that the number of answer choices be reduced. Content designates which of the answers could be removed and in what order.	Affects the item-writing process. Not included in APIP at this time.	answerReduction removeTagGroup removeTagGroupOrder removeTagIdRef	content ext(reducedAnswers=true/false) def=true
Negatives Removed An entirely different item is provided to the user, with negatives removed.	Affects the item-writing process. Not included in APIP at this time.		content ext(negativesRemoved=true/false) def=true
Alternate Representation Note: this allows a user to view alternate representations of figures, tables, charts. These may be presented as static objects (a table for a chart, a chart for a table) or animated objects (an animation for a figure).	Affects the item-writing process. Only text string is available for v1..	revealAlternativeRepresentation textString audioFileInfo, videoFileInfo, graphicFileInfo, textFileInfo, markupFileInfo, markupFileEmbedded, flashFileInfo	content ext(alternativeRepresentations) audioForm (true/false) def = false videoForm (true/false) def = false graphicForm (true/false) def = false textFileForm (true/false) def = false textStringForm (true/false) def = false markupFileForm (true/false) def = false markupEmbeddedForm (true/false) def = false flashForm (true/false) def = false
Simplified Language An entirely different version of the question is given to the user, using simpler language.	Affects the item-writing process.		content ext(simplifiedLanguage=true/false) def=true autoDisplay/toggleDisplay (either/or)

Alternate Representations

Access Need	Notes	Content Tags [apip:accessibility]	AfA PNP Mapping [accessForAllUser]
Key Word Translation Certain specific words would have translations available to users who need some assistance with difficult or important words in the content. The User profile would specify the language requested, and the content would supply the translation for the program required languages.	Affects the item-writing process.	keyWordTranslation definitionID textString language	content ext(keyWordTranslation=true/false) def=true language activateByDefault (true/false)
Item Translation An alternate item is made, and the user is exposed to the alternate language version. The Item information would contain which specific language it is providing.	Affects the item-writing process.		content ext(itemTranslationDisplay) autoDisplay/toggleDisplay (either/or)
Sign Language Animated or live-action movie recordings are provided to the user that provide either an American Sign Language translation, or the Signed English version of the item.	Not required for APIP items. The Item information file should specify whether the content is accessible to either user group (ASL or Signed English). boneAnimationVideoFile not included in APIP at this time. Affects the item-writing process.	signFile signType (asl, signedEnglish), videoFileInfo fileHref startCue endCue boneAnimationVideoFile	content ext(signingMode = asl/signedEnglish vocab) activateByDefault (true/false) def=true
Tactile A tactile representation of the graphic information is made available outside of the computer testing system. The tags should include descriptions of how to locate the specific tactile sheet needed to answer the question.	Affects the item-writing process.	tactileFile tactileAudioFile, tactileAudioText, tactileBrailleText	display tactile activateByDefault (true/false) def=true
Braille Text Content would have specific text strings to be used in a refreshable Braille display device.	The Item Information would need to state whether or not the item was accessible to nonVisual (blind) users. If it is intended to be used by nonVisual users, the item MUST include the Braille text information. Affects the item-writing process.	brailleText brailleTextString	braille brailleGrade numberOfBrailleDots numberOfBrailleCells brailleDotPressure brailleStatusCell activateByDefault (true/false) def=true

Alternate Representations *continued*

Access Need	Notes	Content Tags [apip:accessibility]	AfA PNP Mapping [accessForAllUser]
Read Aloud Text presented to the user is spoken aloud. Graphics (tables/diagrams/pictures) would have alternate text that could be spoken aloud. For the directionsOnly, this is a boolean value (there is no inclusion order for this designation), and would be combined with the other userReadAloudPreference to determine the inclusion order for that user. So a user could be both a directionsOnly user and a textAndGraphics user.	<p>Unless it would violate the construct being measured, it is expected that all content would supply read aloud information (audioText) for all content.</p> <p>If no other inclusion order is included, the default reading order should be taken from the textOnly user, which MUST be included in the file. Optionally, you can provide audioFileInfo, which refers to a pre-recorded audio file.</p> <p>The item information will need to specify for all user types (userReadAloudPreference) whether the content is accessible to that user.</p> <p>Affects the item-writing process.</p>	readAloud audioFileInfo fileHref startTime (opt) duration(opt) voiceType(opt., synthetic [def]), human voiceSpeed (opt., standard [def], fast, slow) audioText (string) textToSpeechPronunciation(string) InclusionOrder textAudioDefaultOrder textAudioOnDemandOrder textGraphicDefaultOrder textGraphicOnDemandOrder nonVisualDefaultOrder graphicsOnlyOnDemandOrder aslDefaultOrder aslOnDemandOrder signLanguageDefaultOrder signLanguageOnDemandOrder	content ext(readAloud) activateByDefault (true/false) def=true audioSourcePreference (human/synthetic) userReadAloudPreference (textOnly, textAndGraphics, nonVisual, graphicsOnly) directionsOnly = true/false readAtStartPreference=true/false, def=true display screenReader usage (required, preferred, optionally use, prohibited) speechRate pitch volume linkIndication (speak link, different voice, sound effect, none)